



PUBLIC NOTICE

File Number: NRS 14.265

Pursuant to Chapter 0400-40-07 of the Department's rules, the proposed activity described below has been submitted for approval under an Aquatic Resource Alteration Permit (this also includes §401 Water Quality Certifications). This notice is intended to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. No decision has been made whether to issue or deny this application.

APPLICANT: James Heiskell
233 Heiskell Road
(865) 922-9173

LOCATION: 233 Heiskell Road
Maynardville, Union County, TN
Impact 1: Latitude: 36.207929 Longitude: -83.827613
Impact 2: Latitude: 36.208010 Longitude: -83.827613

PROJECT DESCRIPTION: The applicant proposes to stabilize two separate segments of the left descending bank of North Fork Bull Run Creek, totaling approximately 318 linear feet, adjacent to 233 Heiskell Road, Union County TN. The proposed project will utilize riprap on the toe of the bank and a riparian buffer preserved to the greatest extent possible.

DEGRADATION: In accordance with the Tennessee Antidegradation Statement (Rule 0400-40-03-.06), the division has determined that the proposed activities will not result in degradation to water quality.

WATERSHED / WATERBODY DESCRIPTION: North Fork Bull Run Creek is a tributary to Bull Run Creek. It originates in Union County in agricultural and forestlands and flows southwesterly through agricultural and forestlands to its confluence with Bull Run Creek which flows into the Lower Clinch River just downstream of Oak Ridge. The Lower Clinch River watershed encompasses portions of 8 counties and drains approximately 931 square miles. For more information on this watershed, please visit <http://www.tn.gov/environment/water/watersheds/lower-clinch-river.shtml>.

Stream Name / ID #: North Fork Bull Run Creek (TN06010207014_0400)
Ecoregion: Southern Dissected Ridges and Knobs (67i)
Stream Dimension: Channel bottom width: approximately 20 feet
Chanel top width: approximately 30 feet
Water depth: approximately 0.5 – 4 feet
Bank height: approximately 3 - 6 feet
Substrate: Unconsolidated sediments, small amounts of cobble and transient littoral gravel bars.

| Designated Use | Use Support | Causes |
|-------------------------------|------------------|--------|
| Fish and aquatic life | Fully Supporting | |
| Recreation | Not Supporting | |
| Irrigation | Fully Supporting | |
| Livestock watering & wildlife | Fully Supporting | |

Assessment Date: 2011

PERMIT COORDINATOR: Mark Jordan

FACTORS CONSIDERED: In deciding whether to issue or deny a permit, the department will consider all comments of record and the requirements of applicable federal and state laws. In making this decision, a determination will be made regarding the lost value of the resource compared to the value of any proposed mitigation. The department shall consider practicable alternatives to the alteration. The department shall also consider loss of waters or habitat, diminishment in biological diversity, cumulative or secondary impacts to the water resource, and adverse impact to unique, high quality, or impaired waters.

COMMENTING: Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced. Send all written comments to the department's address listed below and to the attention of the permit coordinator.

PUBLIC HEARING: Interested persons may request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing. Send all public hearing request to the department's address listed below and to the attention of the permit coordinator.

APPEAL: A permit appeal may be filed, pursuant to T.C.A. §§ 69-3-105(i) and Rule 0400-40-03-.12, by the permit applicant or by any aggrieved person who participated in the public comment period announced by this notice. This petition must be filed within **THIRTY (30) DAYS** after public notice of the issuance of the permit. The petition must specify what provisions are being appealed and the basis for the appeal. It should be addressed to the technical secretary of the Tennessee Board of Water Quality, Oil and Gas at the following address: Tisha Calabrese Benton, Director, Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Ave, 12th floor, Nashville, TN. Any hearing would be in accordance with T.C.A. §§69-3-110 and 4-5-301 et seq.

FILE REVIEW: The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address (listed below) for review and/or copying.

Tennessee Department of Environment & Conservation
Division of Water Resources, Natural Resources Unit
ATTN: Mark Jordan
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243

RECEIVED
FEDERAL BUREAU OF INVESTIGATION
21 AUG 19 AM 9:09

JAMES HEISKELL FARM STREAM BANK STABILIZATION UNION COUNTY, TENNESSEE



Prepared By:
U.S. Department of Agriculture
Natural Resources Conservation Service
Knoxville Area Office
Knoxville, TN

In Cooperation With:
Union County Soil Conservation District

| | |
|----------------------------|----------------------|
| Designed Motor / Zimmerman | Drawn / Zimmerman |
| Checked / LA Motzow | Reviewed / Zimmerman |
| Date 02/14 | Date 02/14 |
| Approved 02/14 | |

| | | |
|---|----------------------------|-------------|
| Union County, Tennessee | Streamp Bank Stabilization | Cover Sheet |
| James Heiskell Farm | | NRCS |
| Tennessee Department of Agriculture Natural Resources Conservation Service | | |

INDEX TO DRAWINGS

1. COVER SHEET
2. PLAN VIEW OF SITE
3. TYPICAL ROCK RIPRAP - SECTION A-A
4. TYPICAL ROCK RIPRAP - SECTION B-B

Graveston, TN Quadrangle (146-NE)
USGS Topographic Maps
Original Map Scale 1" - 2000'
(Latitude N 36° 10' 55.657" Longitude W 83° 50' 45.539")



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Office of the Assistant Secretary for Civil Rights
USDA
Washington, DC 20250-9410
Or call toll free at (866) 833-9522 (voice) to obtain additional information, the appropriate office or to request documents. Individuals who are deaf, hard of hearing, have speech disabilities, and hearing impaired may contact GSA's (800) 862-1336 (in Spanish). USDA is an equal opportunity provider with disabilities who require alternative means for communication of program information (e.g., Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

TN DEPT OF ENVIRONMENT
AND CONSERVATION

SEP 19 2014
DIV OF WATER RESOURCES
RECEIVED

CONSTRUCTION DRAWINGS APPROVED

Digitally Signed by
joseph.zimmerman@usda.gov
joseph.zimmerman@usda.gov
Date: 2014-08-19 13:53:46-05:00

| FILE NAME | DATE |
|---------------------|---------------|
| Heiskell Stream.dwg | AUGUST 14-122 |

Sheet 1 of 4

| | |
|--|--|
| <p>Items of Work:</p> <ol style="list-style-type: none"> Rock Rapor - Toe Armoring - This item consists of a section of rock riprap on left bank of the North Fork Bull Run Creek. Section 1 is on the ninety (90') feet long and four (4') feet tall and uses a rock with a d50 of thirty-six (36") inches. Details of rock riprap toe armoring are shown on Sheet 3 of 4. Rock Rapor - Toe Armoring - This item consists of a section of rock riprap on left bank of the North Fork Bull Run Creek. Section 2 is on the two hundred and twenty-eight (228') feet long and four (4') feet tall and uses a rock with a d50 of thirty-six (36") inches. Details of rock riprap toe armoring are shown on Sheet 4 of 4. <p>Establishment of Riparian Buffers and any required Exclusion Fencing shall be handled by the District Conservationist in conjunction with the landowner. Buffer width, fence type and fence placement shall be determined in the field to NRCS Standards and Specifications. Designs for fencing and buffer layout shall be provided by the District Conservationist or authorized NRCS Personnel.</p> <p>Erosion control measures shall as stated in the appropriate permit application but shall include, but not be limited to, the following:</p> <ul style="list-style-type: none"> a) Work shall take place from the bank. No equipment shall be operated in the flowing channel. b) Water shall be diverted by temporary rock or berm placement so that water does not flow down excavated key trenches during construction of Rock riprap bank armoring. c) No exposed material or site shall be left overnight with out placement of temporary erosion control measures or geotextile fabric. d) All excavated areas shall be seeded and mulched upon completion. <p>(No work shall commence until all structures have been located and staked in the field by the Area 4 Engineering Staff. The Area 4 Engineering Staff shall be present during construction and at final inspection.)</p> <p>It is the landowner's responsibility to acquire all necessary local, state, and federal permits prior to the start of construction.</p> | <p>Plan View of Site James Heskell Farm Stream Bank Stabilization Union County, Tennessee</p> <p>NRCS Natural Resources Conservation Service United States Department of Agriculture</p> <p>FILE NAME: HeskeL Stream.dwg DRAWING NUMBER: A/E-14-123 Sheet 2 of X</p> |
| <p>TBM - Bolt in Metal Utility Pole in field out from Section 2 - Elevation 103.75' (for Section 2)</p> | <p>Approximately 100' between Sections 1 and 2</p> |

Approved _____
 Date 02/14
 Drawn JC Zimmerman
 Checked LA Metrow
 Designated Motorway / Zminimumman 02/14

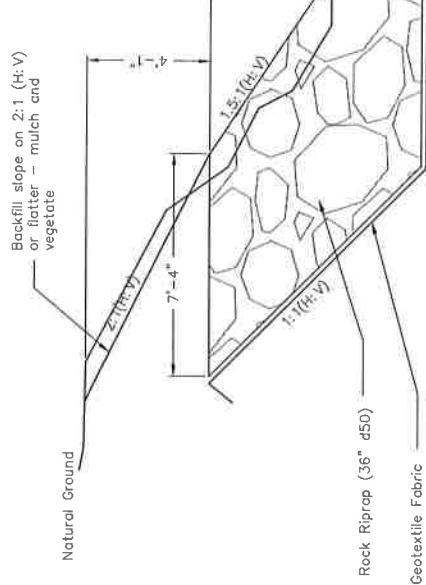
Typical Rock Riprap - Section A-A
 Stream Bank Stabilization
 James Heiskeill Farm
 Union County, Tennessee
 United States Department of Agriculture
 Natural Resources Conservation Service



FILE NAME: Heiskeill Stream.Eng
 DRAWING NUMBER: A-E-1-124
 Sheet 3 of 4

Rock Riprap:

- 1) Rock size shall be a d50 of thirty-six (36") inches - This means that fifty (50%) percent of the rock used shall be thirty-six inches or larger. No rock smaller than twenty-four (24") inches shall be used and no rock larger than forty-eight (48") inches shall be used.
- 2) Rock shall be placed on prepared surface with 1:5:1 (H:V) front face slope and 0:1:1 (H:V) rear/bank face slope. All roots, rocks or other material that may damage geotextile shall be removed from the prepared slope.
- 3) Geotextile used shall be eight (8 oz/sq yd) ounce per square yard non-woven needle punched geotextile. Geotextile shall overlap a minimum of twenty-four (24") inches with overlap not to exceed thirty-six (36") inches.
- 4) Riprap shall be keyed into the channel bed a minimum of three (3') feet deep or until non-excavatable bedrock is encountered.
- 5) Any void areas behind the rock riprap shall be backfilled to match existing natural bank upstream and downstream of the section damaged by livestock activity.
- 6) Any fill material required extending above the completed elevation of the top of the rock riprap shall be sloped back on a 2:1 (H:V) slope, or flatter, and vegetated as directed by the District Conservationist.
- 8) Any excavated materials in excess of material required in backfill behind or above the rock riprap armoring SHALL be removed from site and disposed of out of the influence of river per permit requirements.



Typical Riprap Section
 (Cross Section A-A - Left Bank)

| Typical Rock Riprap (Material and Placement) | | | | |
|--|--------------------|-------------|---------------------|-----------------------|
| Riprap Section | Riprap Length (ft) | Height (ft) | Rock (tons d50 36") | Geotextile (sq yd/sy) |
| Item 1 | 90.0' | 4.0' | 323 (190 cy) | 219 190 |

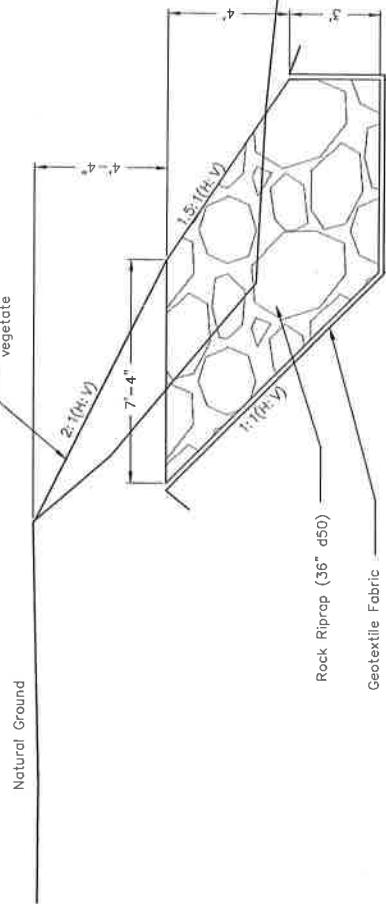
No work shall commence until all structures have been located and staked in the field by the Area 4 Engineering Staff. The Area 4 Engineering Staff shall be present during construction and at final inspection.



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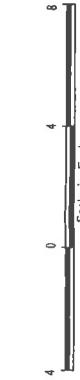
Natural Ground
Backfill slope on 2:1 (H:V)
or flatter - mulch and
vegetate



Typical Riprap Section
(Cross Section B-B - Left Bank)

| Typical Rock Riprap (Material and Placement) | | | | | |
|--|--------------------|-------------|---------------------|-------------------------|-----------------|
| Riprap Section | Riprap Length (ft) | Height (ft) | Rock (tons) d50 36" | Geotextile (sy) 8 oz/sy | Excavation (cy) |
| Item 2 | 288.0' | 4.0' | 819 (482 cy) | 555 | 482 |

No work shall commence until all structures have been located and staked in the field by the Area 4 Engineering Staff. The Area 4 Engineering Staff shall be present during construction and at final inspection.



FILE NAME: Helskell Streamline.dwg
DRAWING NUMBER: A-E-14-125
Sheet 4 of 4

James Helskell Farm
Stream Bank Stabilization
Union County, Tennessee
Typical Rock Riprap - Section B-B

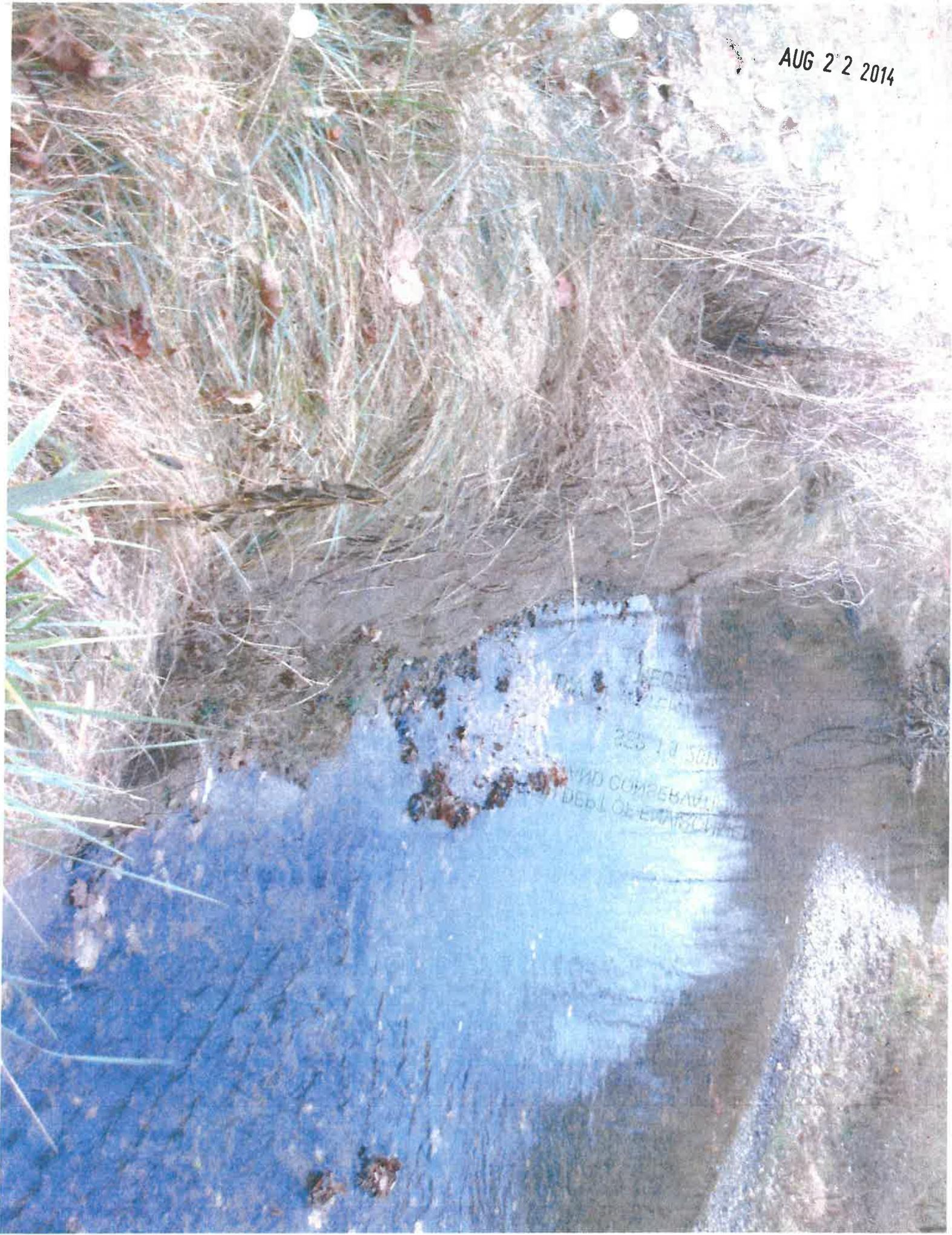
Date: 02/14
Designed Motorway / Zimmetman: 02/14
Drawn: J.A. Motow: 02/14
Checked: J.A. Motow: 02/14
Approved: J.A. Motow: 02/14

Tennessee Department of Agriculture
Division of Agriculture
Natural Resources Conservation Service

AUG 22 2014



AUG 22 2014



AUG 22 2015

